CITY COUNCIL

AGENDA REQUEST

AGENDA OF:	**05-25-10**	**AGENDA REQUEST NO:**	**III-D**
INITIATED BY:	**SHASHI K. KUMAR, P.E., CFM** **SENIOR ENGINEER**	**RESPONSIBLE DEPARTMENT:**	**ENGINEERING**
PRESENTED BY:	**SHASHI K. KUMAR, P.E., CFM** **SENIOR ENGINEER**	**DEPARTMENT HEAD:**	**CHRISTOPHER STEUBING, P.E., CFM, CITY ENGINEER**
		ADDITIONAL DEPARTMENT. HEAD (S):	**N/A**
SUBJECT / PROCEEDING:	**RADAR BASED FLOOD ALERT SYSTEM (FAS)** **WORKSHOP TO UPDATE THE CITY COUNCIL**		
EXHIBITS:	**N/A**		

CLEARANCES		**APPROVAL**	
LEGAL:	**N/A**	**EXECUTIVE DIRECTOR:**	**N/A**
PURCHASING:	**N/A**	**ASST. CITY MANAGER:**	**KAREN DALY**
BUDGET:	**N/A**	**CITY MANAGER:**	**ALLEN BOGARD**

BUDGET

EXPENDITURE REQUIRED: $	**N/A**
AMOUNT BUDGETED/REALLOCATION: $	**N/A**
ADDITIONAL APPROPRIATION: $	**N/A**

RECOMMENDED ACTION

Review and receive presentation on the radar based flood alert system.

EXECUTIVE SUMMARY

In April 2009, the City Council awarded a professional services contract in the amount of $80,000 to P.B. Bedient & Associates, Inc. for the development of a Radar Based Flood Alert System (FAS) for Oyster Creek. This alert system is initially proposed for the Oyster Creek Watershed as a "pilot" project. Upon testing and successful implementation, it was anticipated that this system could be expanded to include other watersheds within the City. The project is funded through the City's Capital Improvement Program (CIP).

The scope of the professional services contract was to develop new FAS for the City to provide flood warning capabilities for sections of Oyster Creek. This will be based on utilizing the available hydrologic and hydraulic models, NEXRAD radar data, and the framework of the existing flood alert system. Some of the key aspects of this project include:

- Hydrologic model development (update) for Oyster Creek
- Floodplain Map Library (FPML) to delineate floodplain for various rainfall intensities
- Centralized flood monitoring by incorporating real-time rain and stream gauges and cameras

The Radar Based FAS is an enhancement to the City's current Flood Alert System and is proposed to integrate with the existing system. This system has the ability to provide early warning on an imminent flooding situation, so as to provide lead time to plan for emergency response. Engineering and consultant staff will provide an overview and a project update on the Radar Based FAS.

EXHIBITS

N/A